

FEDERAL TRADE COMMISSION

[File No. 122 3090]

TRENDnet, Inc.; Analysis of Proposed Consent Order to Aid Public Comment

AGENCY: Federal Trade Commission.

ACTION: Proposed Consent Agreement.

SUMMARY: The consent agreement in this matter settles alleged violations of federal law prohibiting unfair or deceptive acts or practices or unfair methods of competition. The attached Analysis to Aid Public Comment describes both the allegations in the draft complaint and the terms of the consent order -- embodied in the consent agreement -- that would settle these allegations.

DATES: Comments must be received on or before October 4, 2013.

ADDRESSES: Interested parties may file a comment at

https://ftcpublic.commentworks.com/ftc/trendnetconsent online or on paper, by following the instructions in the Request for Comment part of the SUPPLEMENTARY INFORMATION section below. Write "TRENDnet, File No. 122 3090" on your comment and file your comment online at https://ftcpublic.commentworks.com/ftc/trendnetconsent by following the instructions on the web-based form. If you prefer to file your comment on paper, mail or deliver your comment to the following address: Federal Trade Commission, Office of the Secretary, Room H-113 (Annex D), 600 Pennsylvania Avenue, NW, Washington, DC 20580.

FOR FURTHER INFORMATION CONTACT: Laura Berger (202-326-2471), FTC, Bureau of Consumer Protection, 600 Pennsylvania Avenue, NW, Washington, D.C. 20580.

SUPPLEMENTARY INFORMATION: Pursuant to Section 6(f) of the Federal Trade Commission Act, 15 U.S.C. 46(f), and FTC Rule 2.34, 16 CFR 2.34, notice is hereby given that

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the above-captioned consent agreement containing a consent order to cease and desist, having been filed with and accepted, subject to final approval, by the Commission, has been placed on the public record for a period of thirty (30) days. The following Analysis to Aid Public Comment describes the terms of the consent agreement, and the allegations in the complaint. An electronic copy of the full text of the consent agreement package can be obtained from the FTC Home Page (for September 4, 2013), on the World Wide Web, at http://www.ftc.gov/os/actions.shtm. A paper copy can be obtained from the FTC Public Reference Room, Room 130-H, 600 Pennsylvania Avenue, NW, Washington, D.C. 20580, either in person or by calling (202) 326-2222.

You can file a comment online or on paper. For the Commission to consider your comment, we must receive it on or before October 4, 2013. Write "TRENDnet, File No. 122 3090" on your comment. Your comment - including your name and your state - will be placed on the public record of this proceeding, including, to the extent practicable, on the public Commission Website, at http://www.ftc.gov/os/publiccomments.shtm. As a matter of discretion, the Commission tries to remove individuals' home contact information from comments before placing them on the Commission Website.

Because your comment will be made public, you are solely responsible for making sure that your comment does not include any sensitive personal information, like anyone's Social Security number, date of birth, driver's license number or other state identification number or foreign country equivalent, passport number, financial account number, or credit or debit card number. You are also solely responsible for making sure that your comment does not include any sensitive health information, like medical records or other individually identifiable health information. In addition, do not include any "[t]rade secret or any commercial or financial

information which . . . is privileged or confidential," as discussed in Section 6(f) of the FTC Act, 15 U.S.C. 46(f), and FTC Rule 4.10(a)(2), 16 CFR 4.10(a)(2). In particular, do not include competitively sensitive information such as costs, sales statistics, inventories, formulas, patterns, devices, manufacturing processes, or customer names.

If you want the Commission to give your comment confidential treatment, you must file it in paper form, with a request for confidential treatment, and you have to follow the procedure explained in FTC Rule 4.9(c), 16 CFR 4.9(c). Your comment will be kept confidential only if the FTC General Counsel grants your request in accordance with the law and the public interest.

Postal mail addressed to the Commission is subject to delay due to heightened security screening. As a result, we encourage you to submit your comments online. To make sure that the Commission considers your online comment, you must file it at https://ftcpublic.commentworks.com/ftc/trendnetconsent by following the instructions on the web-based form. If this Notice appears at http://www.regulations.gov/#!home. you also may file a comment through that website.

If you file your comment on paper, write "TRENDnet, File No. 122 3090" on your comment and on the envelope, and mail or deliver it to the following address: Federal Trade Commission, Office of the Secretary, Room H-113 (Annex D), 600 Pennsylvania Avenue, NW, Washington, DC 20580. If possible, submit your paper comment to the Commission by courier or overnight service.

Visit the Commission Website at http://www.ftc.gov to read this Notice and the news

¹ In particular, the written request for confidential treatment that accompanies the comment must include the factual and legal basis for the request, and must identify the specific portions of the comment to be withheld from the public record. *See* FTC Rule 4.9(c), 16 CFR 4.9(c).

release describing it. The FTC Act and other laws that the Commission administers permit the collection of public comments to consider and use in this proceeding as appropriate. The Commission will consider all timely and responsive public comments that it receives on or before October 4, 2013. You can find more information, including routine uses permitted by the Privacy Act, in the Commission's privacy policy, at http://www.ftc.gov/ftc/privacy.htm.

Analysis of Agreement Containing Consent Order to Aid Public Comment

The Federal Trade Commission has accepted, subject to final approval, an agreement containing a consent order applicable to TRENDnet, Inc. ("TRENDnet").

The proposed consent order has been placed on the public record for thirty (30) days for receipt of comments by interested persons. Comments received during this period will become part of the public record. After thirty (30) days, the Commission will again review the agreement and the comments received, and will decide whether it should withdraw from the agreement and take appropriate action or make final the agreement's proposed order.

TRENDnet is a California corporation that among other things, sells networking devices, such as routers, modems, and Internet Protocol ("IP") security cameras that allow users to conduct remote surveillance of their homes and businesses via the Internet. In many instances, TRENDnet markets its IP cameras under the trade name "SecurView," and tells consumers they may use the cameras to monitor "babies at home, patients in the hospital, offices and banks, and more." By default, these IP cameras are subject to security settings, such as a requirement to enter a user name and password ("login credentials") in order to access the live video and audio feeds ("live feeds") over the Internet. On approximately January 10, 2012, a hacker discovered a flaw in the IP cameras that allowed access to these live feeds without entering login credentials, resulting in hundreds of previously private live feeds being made public.

The Commission's complaint alleges that TRENDnet violated Section 5(a) of the FTC Act by falsely representing that it had taken reasonable steps to ensure that its IP cameras and mobile apps are a secure means to monitor private areas of a consumer's home or workplace. The complaint also alleges that TRENDnet misrepresented that it had taken reasonable steps to ensure that a user's security settings on its devices would be honored. Finally, the Commission's complaint alleges that TRENDnet engaged in a number of practices that, taken together, failed to provide reasonable security to prevent unauthorized access to personal information, namely the live feeds from the IP cameras. Among other things, TRENDnet:

- (1) transmitted user login credentials in clear, readable text over the Internet, despite the existence of free code libraries (i.e., repositories of programming language that can be integrated by third parties), publicly available since at least 2008, that would have enabled respondent to secure such transmissions;
- (2) stored user login credentials in clear, readable text on a user's mobile device, despite the existence of free software, publicly available since 2008, that would have enabled respondent to secure such stored credentials;
- (3) failed to implement a process to actively monitor security vulnerability reports from third-party researchers, academics, or other members of the public, despite the existence of free tools to conduct such monitoring, thereby delaying the opportunity to correct discovered vulnerabilities or respond to incidents;
- (4) failed to employ reasonable and appropriate security in the design and testing of the software that it provided consumers to install, operate, and access its IP cameras. Among other things, TRENDnet, either directly or through its service

providers, failed to:

- a) perform security review and testing of the software at key points, such as upon the release of the IP camera or upon the release of software to install, operate, or access the IP camera, including measures such as:
 - a security architecture review to evaluate the effectiveness of the software's security infrastructure;
 - ii. vulnerability and penetration testing of the software, such as by inputting invalid, unanticipated, or random data to the software;
 - iii. reasonable and appropriate code review and testing of the software to verify that access to data is restricted consistent with a user's privacy and security settings; and
- b) implement reasonable guidance or training for any employees responsible for the testing, designing, and reviewing the security of its IP cameras and related software.

The complaint further alleges that, due to these failures, TRENDnet subjected users to a significant risk that their live feeds would be compromised, thereby causing significant injury to consumers. Moreover, the complaint alleges that affected consumers include not only those consumers who maintained login credentials for their cameras, but also unwitting third parties who were present in locations under surveillance by the cameras. The exposure of personal information through TRENDnet's IP cameras increases the likelihood that consumers or their property will be targeted for theft or other criminal activity, increases the likelihood that consumers' personal activities or the activities of their young children or other family members will be observed and recorded by strangers over the Internet, impairs

consumers' peaceful enjoyment of their homes, increases consumers' susceptibility to physical tracking or stalking, and reduces consumers' ability to control the dissemination of personal or proprietary information (e.g., intimate video and audio streams or images from business properties). Indeed, consumers had little, if any, reason to know that their information was at risk, particularly if those consumers maintained login credentials for their cameras or were merely unwitting third parties present in locations where the cameras were used.

The proposed order contains provisions designed to prevent TRENDnet from engaging in the future in practices similar to those alleged in the complaint.

Part I of the proposed order prohibits TRENDnet from misrepresenting (1) the extent to which TRENDnet or its products or services maintain and protect the security of covered device functionality or the security, privacy, confidentiality, or integrity of any covered information; and (2) the extent to which a consumer can control the security of any covered information input into, stored on, captured with, accessed, or transmitted by a covered device.

Part II of the proposed order requires TRENDnet to establish and implement, and thereafter maintain, a comprehensive security program to (1) address security risks that could result in unauthorized access to or use of the functions of covered devices, and (2) protect the security, confidentiality, and integrity of covered information, whether collected by respondent or input into, stored on, captured with, accessed or transmitted through a covered device. The security program must contain administrative, technical, and physical safeguards appropriate to TRENDnet's size and complexity, nature and scope of its activities, and the sensitivity of the information collected from or about consumers. Specifically, the proposed order requires TRENDnet to:

(1) designate an employee or employees to coordinate and be accountable for

- the security program;
- (2) identify material internal and external risks to the security of covered devices that could result in unauthorized access to or use of covered device functionality, and assess the sufficiency of any safeguards in place to control these risks;
- (3) identify material internal and external risks to the security, confidentiality, and integrity of covered information that could result in the unauthorized disclosure, misuse, loss, alteration, destruction, or other compromise of such information, whether such information is in TRENDnet's possession or is input into, stored on, captured with, accessed, or transmitted through a covered device, and assess the sufficiency of any safeguards in place to control these risks;
- (4) consider risks in each area of relevant operation, including but not limited to (a) employee training and management; (b) product design, development and research; (c) secure software design, development, and testing; and (d) review, assessment, and response to third-party security vulnerability reports;
- (5) design and implement reasonable safeguards to control the risks identified through risk assessments, including but not limited to reasonable and appropriate software security testing techniques, such as: (a) vulnerability and penetration testing; (b) security architecture reviews; (c) code reviews; and (d) other reasonable and appropriate assessments, audits, reviews, or other tests to identify potential security failures and verify that access to covered information is restricted consistent with a user's security settings;

- (6) regularly test or monitor the effectiveness of the safeguards' key controls, systems, and procedures;
- (7) develop and use reasonable steps to select and retain service providers capable of maintaining security practices consistent with the order, and require service providers by contract to establish and implement, and thereafter maintain, appropriate safeguards; and
- (8) evaluate and adjust its information security program in light of the results of testing and monitoring, any material changes to TRENDnet's operations or business arrangement, or any other circumstances that it knows or has reason to know may have a material impact on its security program.

Part III of the proposed order requires TRENDnet to obtain, within the first one hundred eighty (180) days after service of the order and on a biennial basis thereafter for a period of twenty (20) years, an assessment and report from a qualified, objective, independent third-party professional, certifying, among other things, that: (1) it has in place a security program that provides protections that meet or exceed the protections required by Part II of the proposed order; and (2) its security program is operating with sufficient effectiveness to provide reasonable assurance that the security of covered device functionality and the security, confidentiality, and integrity of covered information is protected.

Part IV of the proposed order requires TRENDnet to notify consumers whose cameras were affected by the breach that their IP cameras had a flaw that allowed third parties to access their live feeds without inputting login credentials; and provide instructions to such consumers on how to remove this flaw. In addition, TRENDnet must provide prompt and free support with

clear and prominent contact information to help consumers update and/or uninstall their IP

cameras. TRENDnet must provide this support via a toll-free, telephonic number and via

electronic mail for two (2) years.

Parts V through IX of the proposed order are reporting and compliance provisions.

Part V requires TRENDnet to retain documents relating to its compliance with the order for a

five-year period. Part VI requires dissemination of the order now and in the future to all

current and future principals, officers, directors, and managers, and to persons with

responsibilities relating to the subject matter of the order. Part VII ensures notification to the

FTC of changes in corporate status. Part VIII mandates that TRENDnet submit a compliance

report to the FTC within 60 days, and periodically thereafter as requested. Part IX is a

provision "sunsetting" the order after twenty (20) years, with certain exceptions.

The purpose of this analysis is to facilitate public comment on the proposed order.

It is not intended to constitute an official interpretation of the proposed complaint or order

or to modify the order's terms in any way.

By direction of the Commission.

Richard C. Donohue.

Acting Secretary.

[BILLING CODE: 6750-01S]

[FR Doc. 2013-22070 Filed 09/10/2013 at 8:45 am; Publication Date: 09/11/2013]

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